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### 1 Adaptive traffic filtering for efficient and secure IP-mobility

[Mirco Marchetti, Michele Colajanni](#)

October 2008 **Q2SWinet '08: Proceedings of the 4th ACM symposium on QoS and security for wireless and mobile networks**

**Publisher:** ACM

Full text available: [PDF \(317.03 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 61, Citation Count: 0

The Mobile IP (MIP) protocol that supports node mobility in IP networks may be implemented through two routing schemes: triangular routing and reverse tunneling. While triangular routing guarantees better performance because of shorter routing paths, ...

### 2 Efficient micro-mobility using intra-domain multicast-based mechanisms (M&M)

[Ahmed Helmy, Muhammad Jaseemuddin, Ganesh Bhaskara](#)

November 2002 **SI GCOMM Computer Communication Review**, Volume 32 Issue 5

**Publisher:** ACM

Full text available: [PDF \(1.03 MB\)](#)

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**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 27, Citation Count: 2

One very important metric in evaluation of IP mobility protocols is handover performance. Handover occurs when a mobile node changes its network point-of-attachment. If not performed efficiently, handover delays, jitters and packet loss directly impact ...

### 3 MobileNAT: a new technique for mobility across heterogeneous address spaces

[Milind Buddhikot, Adiseshu Harj, Kundan Singh, Scott Miller](#)

September 2003 **W MASH '03: Proceedings of the 1st ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

**Publisher:** ACM

Full text available: [PDF \(303.26 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 26, Citation Count: 0

We propose a new network layer mobility architecture called MobileNAT to efficiently support micro and macro-mobility in and across heterogeneous address spaces common in emerging public networks. The key ideas in this architecture are as follows: (1) ...

**Keywords:** MobileNAT, mobility

**4** [Route optimization in nested mobile networks using binding update for top-level MR](#)

 [Parin Sornlertlamvanich, Robert Elz, Sinchai Kamolphiwong](#)

November [AINTEC '08: Proceedings of the 4th Asian Conference on Internet Engineering 2008](#)

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf \(796.57 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 7, Downloads (12 Months): 10, Citation Count: 0

Network Mobility (NEMO) Basic Support protocol is an extension Mobile IPv6. NEMO signaling is performed with extended of Mobile IPv6 messages. NEMO Basic Support protocol is concerned with managing the mobility of an entire network, it provides for devices ...

**Keywords:** mobile IPv6, mobile router, network mobility, route optimization

**5** [An end-system approach to mobility management for 4G networks and its application to thin-client computing](#)

 [Leo Palanapongpibul, Glenford Mapp, Andy Hopper](#)

July [SI GMOBILE Mobile Computing and Communications Review](#), Volume 10 Issue 3 2006

**Publisher:** ACM

Full text available:  [Pdf \(1.48 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 14, Downloads (12 Months): 134, Citation Count: 1

This paper describes work centred around providing greater autonomy for mobile nodes to roam in Mobile IPv6 wireless networks based on a new handoff mechanism. This technique, called the Client-based Handoff, enables mobile nodes to roam in foreign wireless ...

**6** [Crypto-based identifiers \(CBIDs\): Concepts and applications](#)

 [Gabriel Montenegro, Claude Castelluccia](#)

February [Transactions on Information and System Security \(TISSEC\)](#), Volume 7 Issue 2004 1

**Publisher:** ACM  [Request Permissions](#)

Full text available:  [Pdf \(262.76 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), 

**Bibliometrics:** Downloads (6 Weeks): 26, Downloads (12 Months): 152, Citation Count: 4

This paper addresses the identifier ownership problem. It does so by using characteristics of Statistical Uniqueness and Cryptographic Verifiability (SUCV) of certain entities which this document calls SUCV Identifiers and Addresses, or, alternatively, ...

**Keywords:** Security, address ownership, authorization, group management, mobile IPv6, opportunistic encryption

7 [Link synchronous mobile IPv4 handover algorithms](#)

[James Kempf](#), [Ajoy Singh](#), [Jonathan Wood](#), [Atsushi Takeshita](#), [Nat Natarajan](#)

May 2006 [Wireless Networks](#), Volume 12 Issue 3

**Publisher:** Kluwer Academic Publishers

Full text available:  [PDF \(1.13 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 84, Citation Count: 0

The performance of the base Mobile IP handover algorithm for moving the Mobile Node's network layer point of attachment from one subnet to another has been recognized as a potential performance bottleneck for some time. In this paper, we discuss a collection ...

**Keywords:** 802.11, IS-2000, fast handover, handover performance, mobile IPv4

8 [An NSIS-based approach for firewall traversal in mobile IPv6 networks](#)

[Niklas Steinleitner](#), [Xiaoming Fu](#), [Dieter Hogrefe](#), [Thomas Schreck](#), [Hannes Tschofenig](#)

October [WICON '07: Proceedings of the 3rd international conference on Wireless internet 2007](#)

**Publisher:** ICST (Institute for Computer Sciences, Social-Informatics and Telecommunications Engineering)

Full text available:  [PDF \(396.37 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 31, Citation Count: 0

Firewalls have been successfully deployed in today's network infrastructure in various environments and will also be used in IPv6 networks. However, most of the current firewalls do not support Mobile IPv6, the best known standardized solution for mobility ...

9 [QoS support for multi-user sessions in IP-based next generation networks](#)

[Eduardo Cercueira](#), [Luis Veloso](#), [Augusto Neto](#), [Marilia Curado](#), [Edmundo Monteiro](#), [Paulo Mendes](#)

August [Mobile Networks and Applications](#), Volume 13 Issue 3-4 2008

**Publisher:** Kluwer Academic Publishers

Full text available:  [PDF \(993.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 34, Downloads (12 Months): 259, Citation Count: 0

A combined control of multimedia quality level, mobility and allocation of network resources is essential for the success of next generation mobile networks. In this context, this article presents the Multi-user Session Control (MUSC) solution to control ...

**Keywords:** heterogeneous networks, mobility, multi-user session, quality of service

10 [Risks to the public](#)

 [Peter G. Neumann](#)

July 2005 [SI GSOFT Software Engineering Notes](#), Volume 30 Issue 4

**Publisher:** ACM

Full text available:  [PDF \(151.77 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 25, Downloads (12 Months): 239, Citation Count: 0

Edited by Peter G. Neumann (Risks Forum Moderator and Chairman of the ACM Committee on Computers and Public Policy), plus personal contributions by others, as indicated. Opinions expressed are individual rather than organizational, and all of the usual ...

**11** Mobile multi-layered IPsec

Haesook Choi, Hui Song, Guohong Cao, Thomas F. La Porta

December 2008

Wireless Networks, Volume 14 Issue 6

Publisher: Kluwer Academic Publishers

Full text available:  Pdf (1.86 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 8, Downloads (12 Months): 155, Citation Count: 0

To achieve high throughput in wireless networks, smart forwarding and processing of packets in access routers is critical for overcoming the effects of the wireless links. However, these services cannot be provided if data sessions are protected using ...

**Keywords:** IPsec, SNOOP, mobile IP, multi-layered IPsec, security, wireless TCP

**12** Proactive care-of address test for route optimization in FMIPv6

 J. Zhang, D. A. J. Pearce

September 2005 **WMASH '05: Proceedings of the 3rd ACM international workshop on Wireless mobile applications and services on WLAN hotspots**

Publisher: ACM 

Full text available:  Pdf (200.01 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 28, Citation Count: 1

This paper proposes a practical scheme to run the care-of address test (part of the Return Routability test for Mobile IPv6 route optimization) in a proactive way in the context of the Fast Handovers for Mobile IPv6 (FMIPv6) protocol, so that the latency ...

**Keywords:** care-of address, handover, mobile IPv6, return routability test, route optimization

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